

"Made available under NASA sponsorship
in the interest of early and wide dis-
semination of Earth Resources Survey
Program information and without liability
for any use made thereof."

E7.3-1107.9
CR-135548

October 5, 1973

Investigation Title: Utilization of Skylab (EREP) System
for Appraising Changes in Continental
Migratory Bird Habitat

Period: Monthly Progress Report, September 1973

EREP Investigation No: 486

NASA Contract No: T-4114B

Principal Investigator: Mr. Harvey K. Nelson, Director
Northern Prairie Wildlife Research Center
Jamestown, North Dakota 58401

Co-Investigator: Mr. Edgar A. Work, Jr.
Environmental Research Institute of Michigan
P. O. Box 618
Ann Arbor, Michigan 48107

NASA Technical Monitor: Mr. Roger Hicks
Lyndon B. Johnson Space Center
Principal Investigator Management Office
Houston, Texas 77058

E73-11079) UTILIZATION OF SKYLAB (EREP)
SYSTEM FOR APPRAISING CHANGES IN
CONTINENTAL MIGRATORY BIRD HABITAT
Monthly (Bureau of Sport Fisheries and
Wildlife) 4 p HC \$3.00

N73-32254

CSCS 06C

G3/13

Unclas
01079

Overall Status:

The bulk of the effort during this reporting period has involved keeping abreast of EREP pass planning (including both scheduling of passes and locating the ground track) in order to assure that real time ground truth may be obtained should an overflight occur over site 866323.

During this period information has been assimilated on the extent of data collection to date primarily over site 866323 and secondarily over site 866428. A synopsis of this information follows:

<u>Date</u>	<u>Track</u>	<u>Mission</u>	<u>Site</u>	<u>Remarks</u>
6-12-73	61	SL-2	866323	S-190A on, S-190B not operated, 11-Sec. of S-192 data acquired.
6-12-73	61	SL-2	866428	S-190A on, S-190B not operated, S-192 coverage acquired only for extreme SW corner of site - no screening film received.
8-5-73	61	SL-3	866323	S-190A and S-190B on, no S-192 data acquired - clouds reportedly occluded site.
8-5-73	61	SL-3	866428	S-190A and S-190B on, no S-192 data acquired.
8-9-73	47	SL-3	866323	S-190A on, S-190B not operated, S-192 not operated.
9-9-73	59	SL-3	866323	no sensors operated over site - weather reportedly not acceptable.
9-9-73	59	SL-3	866428	sensors not operated over site
9-19-73	4	SL-3	866428	unknown whether sensors were operated, S-192 coverage, if available, would only cover extreme NE corner of site.

Information concerning the SL-3 mission listed in the above table was obtained by a review of EREP post-pass messages and through conversations with the PIMO. The tabulated information may not be complete; however, it is an attempt on our part to collate information from several sources prior to the return of the SL-3 crew and the subsequent dissemination of imagery to the investigators.

Only imagery from the overflight of 6-12-73 have been available for our review. Available imagery have included S-190A photographic products and S-192 screening film. The screening film has been used to determine the extent of site coverage and to specify location and quantity of CCT's desired for subsequent processing. Appropriate S-192 digital tapes were requested on 9-21-73 by correspondence to the Principal Investigator Management Office (PIMO).

Recommendations for Action

It is difficult and time consuming to remain informed of site coverage by various sensors on the numerous data collection tracks. A catalog of EREP data should be made available as soon as possible.

Expected Accomplishments During the Next Period

We will await the receipt of data tapes as ordered and will assess subsequent processing plans based upon receipt of screening film from mission SL-3.

Significant Results

None to report.

Summary Outlook

The remaining processing and analysis to be performed constitutes the major effort of the contract.

Travel Summary and Plans

No travel has been undertaken or is anticipated for the forthcoming period.